

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/549,619
Source: PCT
Date Processed by STIC: 06/22/2006

ENTERED

IP7 Rec'd PCT/PTO 28 JUN 2006



PCT

RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

3 <110> APPLICANT: Nuevolution A/S
5 <120> TITLE OF INVENTION: Ligational encoding of small molecules
7 <130> FILE REFERENCE: P909PC00
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/549,619
C--> 9 <141> CURRENT FILING DATE: 2005-09-20
9 <160> NUMBER OF SEQ ID NOS: 19
11 <170> SOFTWARE: PatentIn version 3.3
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 7
15 <212> TYPE: DNA
16 <213> ORGANISM: Artificial
18 <220> FEATURE:
19 <223> OTHER INFORMATION: synthetic
22 <220> FEATURE:
23 <221> NAME/KEY: misc_feature
24 <222> LOCATION: (2)..(3)
25 <223> OTHER INFORMATION: n is a, c, g, t or u
27 <220> FEATURE:
28 <221> NAME/KEY: misc_feature
29 <222> LOCATION: (5)..(6)
30 <223> OTHER INFORMATION: n is a, c, g, t or u
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W--> 33 tnnanna 7
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37 <211> LENGTH: 7
38 <212> TYPE: DNA
39 <213> ORGANISM: Artificial
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42 <223> OTHER INFORMATION: synthetic
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46 <221> NAME/KEY: misc_feature
47 <222> LOCATION: (2)..(3)
48 <223> OTHER INFORMATION: n is a, c, g, t or u
50 <220> FEATURE:
51 <221> NAME/KEY: misc_feature
52 <222> LOCATION: (5)..(6)
53 <223> OTHER INFORMATION: n is a, c, g, t or u
55 <400> SEQUENCE: 2
W--> 56 annannt 7
59 <210> SEQ ID NO: 3
60 <211> LENGTH: 7
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial

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Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

64 <220> FEATURE:
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 68 <220> FEATURE:
 69 <221> NAME/KEY: misc_feature
 70 <222> LOCATION: (1)..(1)
 71 <223> OTHER INFORMATION: phosphate
 73 <220> FEATURE:
 74 <221> NAME/KEY: misc_feature
 75 <222> LOCATION: (2)..(3)
 76 <223> OTHER INFORMATION: n is a, c, g, t or u
 78 <220> FEATURE:
 79 <221> NAME/KEY: misc_feature
 80 <222> LOCATION: (4)..(4)
 81 <223> OTHER INFORMATION: carboxy d-T
 83 <220> FEATURE:
 84 <221> NAME/KEY: misc_feature
 85 <222> LOCATION: (5)..(6)
 86 <223> OTHER INFORMATION: n is a, c, g, t or u
 88 <400> SEQUENCE: 3

W--> 89 tnnnnna

7

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 94 <212> TYPE: DNA
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 98 <223> OTHER INFORMATION: synthetic
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 102 <221> NAME/KEY: misc_feature
 103 <222> LOCATION: (1)..(1)
 104 <223> OTHER INFORMATION: phosphate
 106 <220> FEATURE:
 107 <221> NAME/KEY: misc_feature
 108 <222> LOCATION: (2)..(3)
 109 <223> OTHER INFORMATION: n is a, c, g, t or u
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 112 <221> NAME/KEY: misc_feature
 113 <222> LOCATION: (4)..(4)
 114 <223> OTHER INFORMATION: Carboxy-dT
 116 <220> FEATURE:
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 121 <400> SEQUENCE: 4

W--> 122 annnnnt

7

125 <210> SEQ ID NO: 5
 126 <211> LENGTH: 60
 127 <212> TYPE: DNA
 128 <213> ORGANISM: Artificial
 130 <220> FEATURE:

RAW SEQUENCE LISTING

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Input Set : A:\sequence listing.txt

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131 <223> OTHER INFORMATION: synthetic
134 <220> FEATURE:
135 <221> NAME/KEY: misc_feature
136 <222> LOCATION: (57)..(57)
137 <223> OTHER INFORMATION: Carboxy-dT
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144 <211> LENGTH: 67
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial
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149 <223> OTHER INFORMATION: synthetic
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (57)..(57)
155 <223> OTHER INFORMATION: Carboxy-dT
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <222> LOCATION: (64)..(64)
160 <223> OTHER INFORMATION: Carboxy-dT
162 <400> SEQUENCE: 6
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165 tagnaca 67
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170 <212> TYPE: DNA
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173 <220> FEATURE:
174 <223> OTHER INFORMATION: synthetic
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (57)..(57)
180 <223> OTHER INFORMATION: Carboxy-dT
182 <220> FEATURE:
183 <221> NAME/KEY: misc_feature
184 <222> LOCATION: (64)..(64)
185 <223> OTHER INFORMATION: Carboxy-dT
187 <220> FEATURE:
188 <221> NAME/KEY: misc_feature
189 <222> LOCATION: (71)..(71)
190 <223> OTHER INFORMATION: Carboxy-dT
192 <400> SEQUENCE: 7
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195 tagnacaaac nact 74
198 <210> SEQ ID NO: 8
199 <211> LENGTH: 7
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial

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203 <220> FEATURE:
204 <223> OTHER INFORMATION: synthetic
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (1)..(1)
210 <223> OTHER INFORMATION: phosphate
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <222> LOCATION: (4)..(4)
215 <223> OTHER INFORMATION: C6 amino-dT
217 <400> SEQUENCE: 8
W--> 218 atgncat 7
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223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial
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227 <223> OTHER INFORMATION: synthetic
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (4)..(4)
233 <223> OTHER INFORMATION: carboxy-dT
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245 <223> OTHER INFORMATION: synthetic
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (1)..(1)
251 <223> OTHER INFORMATION: phosphate
253 <400> SEQUENCE: 10
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259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial
262 <220> FEATURE:
263 <223> OTHER INFORMATION: synthetic
265 <400> SEQUENCE: 11
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269 <210> SEQ ID NO: 12
270 <211> LENGTH: 62
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial
274 <220> FEATURE:

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TIME: 13:00:47

Input Set : A:\sequence listing.txt

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275 <223> OTHER INFORMATION: synthetic
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280 gg                                                                    62
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289 <223> OTHER INFORMATION: synthetic
292 <220> FEATURE:
293 <221> NAME/KEY: misc_feature
294 <222> LOCATION: (1)..(1)
295 <223> OTHER INFORMATION: phosphate
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <222> LOCATION: (4)..(4)
300 <223> OTHER INFORMATION: carboxy dT
302 <400> SEQUENCE: 13
W--> 303 tacnaca                                                                7
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309 <213> ORGANISM: Artificial
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315 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
317 <222> LOCATION: (1)..(1)
318 <223> OTHER INFORMATION: phosphate
320 <220> FEATURE:
321 <221> NAME/KEY: misc_feature
322 <222> LOCATION: (4)..(4)
323 <223> OTHER INFORMATION: carboxy dT
325 <400> SEQUENCE: 14
W--> 326 tacnaca                                                                7
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331 <212> TYPE: DNA
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334 <220> FEATURE:
335 <223> OTHER INFORMATION: synthetic
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339 <221> NAME/KEY: misc_feature
340 <222> LOCATION: (1)..(1)
341 <223> OTHER INFORMATION: phosphate
343 <220> FEATURE:
344 <221> NAME/KEY: misc_feature
345 <222> LOCATION: (4)..(4)

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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:49

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2,3,5,6
Seq#:2; N Pos. 2,3,5,6
Seq#:3; N Pos. 2,3,4,5,6
Seq#:4; N Pos. 2,3,4,5,6
Seq#:5; N Pos. 57
Seq#:6; N Pos. 57,64
Seq#:7; N Pos. 57,64,71
Seq#:8; N Pos. 4
Seq#:9; N Pos. 4
Seq#:13; N Pos. 4
Seq#:14; N Pos. 4
Seq#:15; N Pos. 4

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

VERIFICATION SUMMARY

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:49

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
M:341 Repeated in SeqNo=7
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/549,619
Source: PCT
Date Processed by STIC: 06/22/2006

ENTERED

IAP7 Rec'd PCT/PTO 28 JUN 2006



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RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

3 <110> APPLICANT: Nuevolution A/S
 5 <120> TITLE OF INVENTION: Ligational encoding of small molecules
 7 <130> FILE REFERENCE: P909PC00
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/549,619
 C--> 9 <141> CURRENT FILING DATE: 2005-09-20
 9 <160> NUMBER OF SEQ ID NOS: 19
 11 <170> SOFTWARE: PatentIn version 3.3
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 7
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Artificial
 18 <220> FEATURE:
 19 <223> OTHER INFORMATION: synthetic
 22 <220> FEATURE:
 23 <221> NAME/KEY: misc_feature
 24 <222> LOCATION: (2)..(3)
 25 <223> OTHER INFORMATION: n is a, c, g, t or u
 27 <220> FEATURE:
 28 <221> NAME/KEY: misc_feature
 29 <222> LOCATION: (5)..(6)
 30 <223> OTHER INFORMATION: n is a, c, g, t or u
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 46 <221> NAME/KEY: misc_feature
 47 <222> LOCATION: (2)..(3)
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 50 <220> FEATURE:
 51 <221> NAME/KEY: misc_feature
 52 <222> LOCATION: (5)..(6)
 53 <223> OTHER INFORMATION: n is a, c, g, t or u
 55 <400> SEQUENCE: 2
 W--> 56 annannt 7
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 60 <211> LENGTH: 7
 61 <212> TYPE: DNA
 62 <213> ORGANISM: Artificial

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RAW SEQUENCE LISTING

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Input Set : A:\sequence_listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

64 <220> FEATURE:
 65 <223> OTHER INFORMATION: synthetic
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 69 <221> NAME/KEY: misc_feature
 70 <222> LOCATION: (1)..(1)
 71 <223> OTHER INFORMATION: phosphate
 73 <220> FEATURE:
 74 <221> NAME/KEY: misc_feature
 75 <222> LOCATION: (2)..(3)
 76 <223> OTHER INFORMATION: n is a, c, g, t or u
 78 <220> FEATURE:
 79 <221> NAME/KEY: misc_feature
 80 <222> LOCATION: (4)..(4)
 81 <223> OTHER INFORMATION: carboxy d-T
 83 <220> FEATURE:
 84 <221> NAME/KEY: misc_feature
 85 <222> LOCATION: (5)..(6)
 86 <223> OTHER INFORMATION: n is a, c, g, t or u
 88 <400> SEQUENCE: 3

W--> 89 tnnnnna

7

92 <210> SEQ ID NO: 4
 93 <211> LENGTH: 7
 94 <212> TYPE: DNA
 95 <213> ORGANISM: Artificial
 97 <220> FEATURE:
 98 <223> OTHER INFORMATION: synthetic
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 102 <221> NAME/KEY: misc_feature
 103 <222> LOCATION: (1)..(1)
 104 <223> OTHER INFORMATION: phosphate
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 107 <221> NAME/KEY: misc_feature
 108 <222> LOCATION: (2)..(3)
 109 <223> OTHER INFORMATION: n is a, c, g, t or u
 111 <220> FEATURE:
 112 <221> NAME/KEY: misc_feature
 113 <222> LOCATION: (4)..(4)
 114 <223> OTHER INFORMATION: Carboxy-dT
 116 <220> FEATURE:
 117 <221> NAME/KEY: misc_feature
 118 <222> LOCATION: (5)..(6)
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 121 <400> SEQUENCE: 4

W--> 122 annnnnt

7

125 <210> SEQ ID NO: 5
 126 <211> LENGTH: 60
 127 <212> TYPE: DNA
 128 <213> ORGANISM: Artificial
 130 <220> FEATURE:

RAW SEQUENCE LISTING

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Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

131 <223> OTHER INFORMATION: synthetic
 134 <220> FEATURE:
 135 <221> NAME/KEY: misc_feature
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 137 <223> OTHER INFORMATION: Carboxy-dT
 139 <400> SEQUENCE: 5

W--> 140 agcagttagt agtttgtact atgtagtacc tcgaccactt tttgtggtcg aggtacnaca 60

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 149 <223> OTHER INFORMATION: synthetic
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 153 <221> NAME/KEY: misc_feature
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 155 <223> OTHER INFORMATION: Carboxy-dT
 157 <220> FEATURE:
 158 <221> NAME/KEY: misc_feature
 159 <222> LOCATION: (64)..(64)
 160 <223> OTHER INFORMATION: Carboxy-dT
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 165 tagnaca 67

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 178 <221> NAME/KEY: misc_feature
 179 <222> LOCATION: (57)..(57)
 180 <223> OTHER INFORMATION: Carboxy-dT
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 183 <221> NAME/KEY: misc_feature
 184 <222> LOCATION: (64)..(64)
 185 <223> OTHER INFORMATION: Carboxy-dT
 187 <220> FEATURE:
 188 <221> NAME/KEY: misc_feature
 189 <222> LOCATION: (71)..(71)
 190 <223> OTHER INFORMATION: Carboxy-dT
 192 <400> SEQUENCE: 7

W--> 193 agcagttagt agtttgtact atgtagtacc tcgaccactt tttgtggtcg aggtacnaca 60
 195 tagnacaaac nact 74

198 <210> SEQ ID NO: 8
 199 <211> LENGTH: 7
 200 <212> TYPE: DNA
 201 <213> ORGANISM: Artificial

RAW SEQUENCE LISTING

DATE: 06/22/2006

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TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

203 <220> FEATURE:
 204 <223> OTHER INFORMATION: synthetic
 207 <220> FEATURE:
 208 <221> NAME/KEY: misc_feature
 209 <222> LOCATION: (1)..(1)
 210 <223> OTHER INFORMATION: phosphate
 212 <220> FEATURE:
 213 <221> NAME/KEY: misc_feature
 214 <222> LOCATION: (4)..(4)
 215 <223> OTHER INFORMATION: C6 amino-dT
 217 <400> SEQUENCE: 8

W--> 218 atgncat

7

221 <210> SEQ ID NO: 9
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 224 <213> ORGANISM: Artificial
 226 <220> FEATURE:
 227 <223> OTHER INFORMATION: synthetic
 230 <220> FEATURE:
 231 <221> NAME/KEY: misc_feature
 232 <222> LOCATION: (4)..(4)
 233 <223> OTHER INFORMATION: carboxy-dT
 235 <400> SEQUENCE: 9

W--> 236 atcngta

7

239 <210> SEQ ID NO: 10
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 245 <223> OTHER INFORMATION: synthetic
 248 <220> FEATURE:
 249 <221> NAME/KEY: misc_feature
 250 <222> LOCATION: (1)..(1)
 251 <223> OTHER INFORMATION: phosphate
 253 <400> SEQUENCE: 10

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45

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258 <211> LENGTH: 53

259 <212> TYPE: DNA

260 <213> ORGANISM: Artificial

262 <220> FEATURE:

263 <223> OTHER INFORMATION: synthetic

265 <400> SEQUENCE: 11

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53

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270 <211> LENGTH: 62

271 <212> TYPE: DNA

272 <213> ORGANISM: Artificial

274 <220> FEATURE:

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TIME: 13:00:47

Input Set : A:\sequence_listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

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275 <223> OTHER INFORMATION: synthetic
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280 gg                                                                    62
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284 <211> LENGTH: 7
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial
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292 <220> FEATURE:
293 <221> NAME/KEY: misc_feature
294 <222> LOCATION: (1)..(1)
295 <223> OTHER INFORMATION: phosphate
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <222> LOCATION: (4)..(4)
300 <223> OTHER INFORMATION: carboxy dT
302 <400> SEQUENCE: 13
W--> 303 tacnaca                                                                7
306 <210> SEQ ID NO: 14
307 <211> LENGTH: 7
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial
311 <220> FEATURE:
312 <223> OTHER INFORMATION: synthetic
315 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
317 <222> LOCATION: (1)..(1)
318 <223> OTHER INFORMATION: phosphate
320 <220> FEATURE:
321 <221> NAME/KEY: misc_feature
322 <222> LOCATION: (4)..(4)
323 <223> OTHER INFORMATION: carboxy dT
325 <400> SEQUENCE: 14
W--> 326 tacnaca                                                                7
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330 <211> LENGTH: 7
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial
334 <220> FEATURE:
335 <223> OTHER INFORMATION: synthetic
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339 <221> NAME/KEY: misc_feature
340 <222> LOCATION: (1)..(1)
341 <223> OTHER INFORMATION: phosphate
343 <220> FEATURE:
344 <221> NAME/KEY: misc_feature
345 <222> LOCATION: (4)..(4)

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/549,619

DATE: 06/22/2006
TIME: 13:00:49

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\06222006\J549619.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2,3,5,6
Seq#:2; N Pos. 2,3,5,6
Seq#:3; N Pos. 2,3,4,5,6
Seq#:4; N Pos. 2,3,4,5,6
Seq#:5; N Pos. 57
Seq#:6; N Pos. 57,64
Seq#:7; N Pos. 57,64,71
Seq#:8; N Pos. 4
Seq#:9; N Pos. 4
Seq#:13; N Pos. 4
Seq#:14; N Pos. 4
Seq#:15; N Pos. 4

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

VERIFICATION SUMMARY

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:49

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
M:341 Repeated in SeqNo=7
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0